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Mouse Ddr1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20672c

Specification

Mouse Ddr1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q03146
Other Accession	Q63474, Q08345
Reactivity	**Human, Mouse**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Mouse Ddr1 Antibody (Center) - Additional Information

Gene ID 12305

Other Names
Epithelial discoidin domain-containing receptor 1, Epithelial discoidin domain receptor 1, CD167 antigen-like family member A, Cell adhesion kinase, Discoidin receptor tyrosine kinase, Protein-tyrosine kinase MPK-6, Tyrosine kinase DDR, Tyrosine-protein kinase CAK, CD167a, Ddr1, Cak, Eddr1, Mpk6

Target/Specificity
This Mouse Ddr1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 396-430 amino acids from the Central region of human Mouse Ddr1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Ddr1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Ddr1 Antibody (Center) - Protein Information

Name Ddr1

Synonyms Cak, Eddr1, Mpk6

Function Tyrosine kinase that functions as a cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing, but also tumor cell invasion. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Phosphorylates PTPN11 (By similarity). Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing.

Cellular Location
Cell membrane; Single-pass type I membrane protein

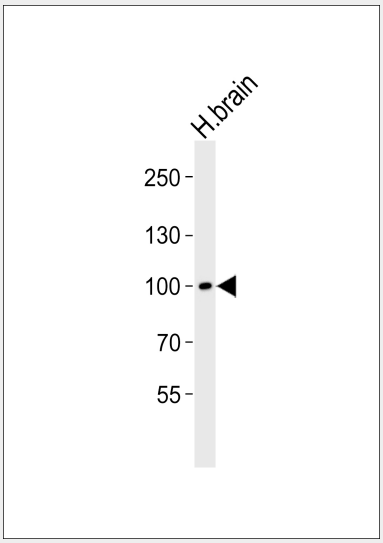
Tissue Location
Detected in the cochlea and the organ of Corti in the inner ear. Isoform 1 is predominant and is expressed in developing embryo and adult brain. Isoform 2 is expressed in various epithelial cells.

Mouse Ddr1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Ddr1 Antibody (Center) - Images



Western blot analysis of lysate from human brain tissue lysate, using Mouse Ddr1 Antibody (Center)(Cat. #AP20672c). AP20672c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at

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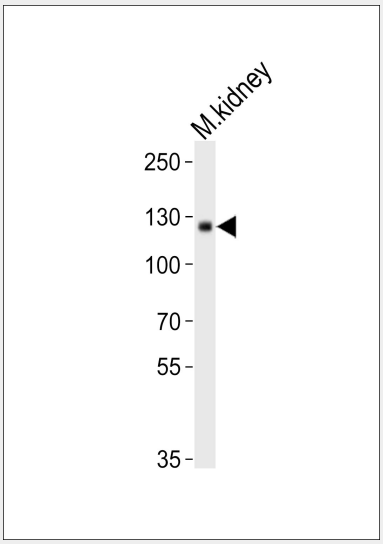
1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Western blot analysis of lysate from mouse kidney tissue lysate, using Mouse Ddr1 Antibody (Center)(Cat. #AP20672c). AP20672c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

Mouse Ddr1 Antibody (Center) - Background

Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing, but also tumor cell invasion. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Phosphorylates PTPN11 (By similarity). Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing.

Mouse Ddr1 Antibody (Center) - References

Perez J.L.,et al.Oncogene 12:1469-1477(1996).
Gilardi-Hebenstreit P.,et al.Oncogene 7:2499-2506(1992).
Vogel W.F.,et al.Mol. Cell. Biol. 21:2906-2917(2001).
Hou G.,et al.Circ. Res. 90:1147-1149(2002).
Gross O.,et al.Kidney Int. 66:102-111(2004).